BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : **Improvements of roads and drains and culverts at Bhadrappa Layout and Surroundings at Kodigehalli Ward No. 08**

Estimated Cost : **46.00 Lakhs**

Job Code: **008-18-000007**

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to Roads and Drains at Bhadrappa layout in ~~at~~ at Bhadrappa Layout and surrounding at Kodigehalli. Ward no. 8

Est Cost: =46.00Lakhs

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Maruthinagar	Cum							
	7th A Cross		2	63	0.95	0.85	101.75		
	6th A Cross		1	66	0.95	0.85	53.30		
	5th A Cross		2	56	0.95	0.85	90.44		
	4th A Cross		2	78	0.95	0.85	125.97		
	3rd A Cross		2	46	0.95	0.85	74.29		
	2nd A Cross		2	63	0.95	0.75	89.78		
	Desilt								
	6th A Cross		1	66	0.50	0.40	13.20		
							548.72	186.92	**102565.81**
	Basic rate	**82**							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	**100**							
	Area Weightage 6%	**4.92**							
	Final Rate	**186.92**							
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Bed Concrete	Cum							
	Maruthinagar								
	7th A Cross		2	63	0.95	0.15	17.96		
	6th A Cross		1	66	0.95	0.15	9.41		
	5th A Cross		2	56	0.95	0.15	15.96		
	4th A Cross		2	78	0.95	0.15	22.23		
	3rd A Cross		2	46	0.95	0.15	13.11		
	2nd A Cross		2	63	0.95	0.15	17.96		
	#REF!								
							96.62	5348.76	**516770.45**
	Basic rate	**5046**							
	Area Weightage 6%	**302.76**							
	Final Rate	**5348.76**							

l. lo.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
3	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)								
	Bottom Slab	Sqm							
	Maruthinagar		4	63.00	--	0.15	37.80		
	7th A Cross		2	66.00	--	0.15	19.80		
	6th A Cross		4	56.00	--	0.15	33.60		
	5th A Cross		4	78.00	--	0.15	46.80		
	4th A Cross		4	46.00	--	0.15	27.60		
	3rd A Cross		4	63.00	--	0.15	37.80		
	2nd A Cross						**203.40**	244.86	**49804.52**
	Basic rate	**231**							
	Area Weightage 6%	**13.86**							
	Final Rate	**244.86**							
4	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)								
	Side Walls	Sqm							
	Maruthinaaar		8.00	63.00	--	0.60	302.40		
	7th A Cross		4.00	66.00	--	0.60	158.40		
	6th A Cross		8.00	56.00	--	0.60	268.80		
	5th A Cross		8.00	78.00	--	0.60	374.40		
	4th A Cross		8.00	46.00	--	0.60	220.80		
	3rd A Cross		8.00	63.00	--	0.50	252.00		
	2nd A Cross						**1576.80**	310.58	**489722.54**
	Basic rate	**293**							
	Area Weightage 6%	**17.58**							
	Final Rate	**310.58**							

	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
5	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and								
	New CC Drain	Cum							
	Bottom Slab								
	7th A Cross		2.00	63.00	0.75	0.15	14.18		
	6th A Cross		1.00	66.00	0.75	0.15	7.43		
	5th A Cross		2.00	56.00	0.75	0.15	12.60		
	4th A Cross		2.00	78.00	0.75	0.15	17.55		
	3rd A Cross		2.00	46.00	0.75	0.15	10.35		
	2nd A Cross		2.00	63.00	0.75	0.15	14.18		
	Side Walls								
	7th A Cross		4.00	63.00	0.15	0.60	22.68		
	6th A Cross		2.00	66.00	0.15	0.60	11.88		
	5th A Cross		4.00	56.00	0.15	0.60	20.16		
	4th A Cross		4.00	78.00	0.15	0.60	28.08		
	3rd A Cross		4.00	46.00	0.15	0.60	16.56		
	2nd A Cross		4.00	63.00	0.15	0.50	18.90		
							194.54	6231.74	**1212291.54**
	Basic rate	**5879**							
	Area Weightage 6%	**352.74**							
	Final Rate	**6231.74**							
6	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR								
	Consider 55Kgs/cum for item No. only RCC Drain Qty	Tonne		194.54	0.055	--	10.70		
							10.70	64243.42	**687404.59**
	Basic rate	**60607**							
	Area Weightage 6%	**3636.42**							
	Final Rate	**64243**							
7	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Maruthinagar	Sqm							
	7th A Cross		2.00	63.00	0.75	--	94.50		
	6th A Cross		1.00	66.00	0.75	--	49.50		
	5th A Cross		2.00	56.00	0.75	--	84.00		
	4th A Cross		2.00	78.00	0.75	--	117.00		
	3rd A Cross		2.00	46.00	0.75	--	69.00		
	2nd A Cross		2.00	63.00	0.75	--	94.50		
							508.50	1834.00	**932589.00**

Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)								
Appeoach CC	Cum							
7th A Cross	0.5	2.00	63.00	0.300	0.100	1.89		
6th A Cross	0.5	1.00	66.00	0.300	0.100	0.99		
5th A Cross	0.5	2.00	56.00	0.300	0.100	1.68		
4th A Cross	0.5	2.00	78.00	0.300	0.100	2.34		
3rd A Cross	0.5	2.00	46.00	0.300	0.100	1.38		
2nd A Cross	0.5	2.00	63.00	0.300	0.100	1.89		
						10.17	5767.46	58655.07
Basic rate	5441.00							
Area Weightage 6%	326.46							
Final Rate	5767.46							
							Total Construction Cost	4049803.52
9							Cost towards PMC / Third Party inspection LS	40499.00
10							Tender Premium 10%	404980.35
							Sub Total	4495282.87
11							Miscellaneous and rounding off	4717.13
							Total	4500000.00

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
4 The provisions made in the estimate are necessary and essential.

Assistant Engineer 27.01

Assistant Executive Engineer

Executive Engineer 27/01
Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092

27/01

ADMINISTRATIVE APPROVAL
Accorded For Rs. Forty five lakhs only
Head of A/c. P-3333
Div. Ref. No. 164/1718 Date 27/01/18
27/01
AE
EE(BTP) 27/01

Technical Sanction
Accorded For Rs. Forty five lakhs only
Head of A/C. P-3333
CER NO: TS/558/1718 27.01.18
TA CE (YNK)

NAME OF WORK:- Improvements to Roads, drains and culverts at Bhadrappa Layout and surroundings at Hadi-gehalli Ward no 8